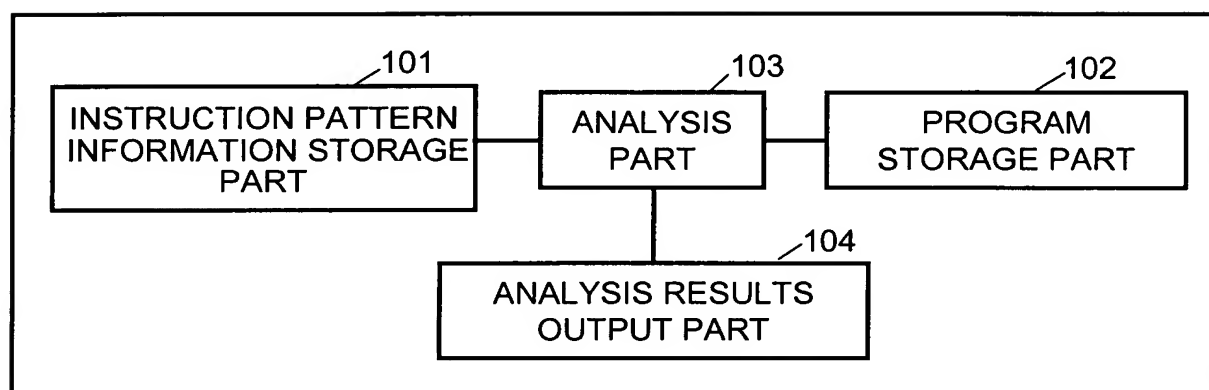


FIG. 1



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FIG. 2

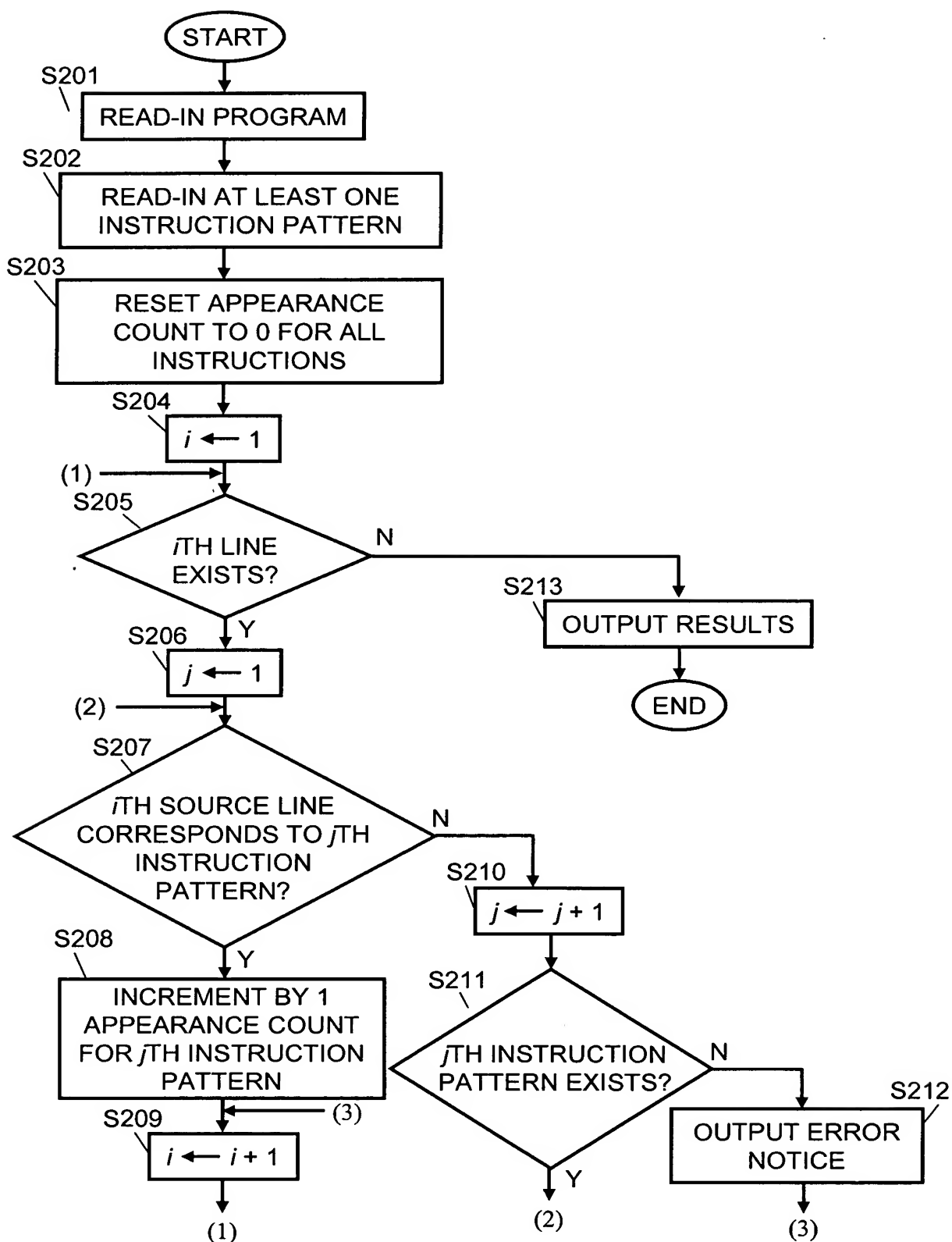


FIG. 3

ID	Instruction Pattern Information
1	IDENTIFICATION DIVISION
2	PROGRAM-ID VARIABLE01
3	ENVIRONMENT DIVISION
4	CONFIGURATION SECTION
5	INPUT-OUTPUT SECTION
6	FILE-CONTROL
7	OBJECT-COMPUTER CONVERSION01
8	SELECT VARIABLE01 ASSIGN TO VARIABLE02
9	SELECT VARIABLE01 ASSIGN TO VARIABLE02 ORGANIZATION INDEXED ACCESS MODE ... DYNAMIC RECORD KEY VARIABLE03 FILE STATUS IS VARIABLE04
10	SELECT VARIABLE01 ASSIGN TO VARIABLE02 ORGANIZATION INDEXED ACCESS MODE ... RANDOM RECORD KEY VARIABLE03 FILE STATUS IS VARIABLE04
11	SOURCE-COMPUTER VARIABLE01
12	DATA DIVISION
13	FILE SECTION
14	WORKING-STORAGE SECTION
15	NUMBER VARIABLE01
16	NUMBER VARIABLE01 OCCURS FIGURE01 DEPENDING ON VARIABLE02
17	NUMBER VARIABLE01 PIC × (FIGURE01)
18	NUMBER VARIABLE01 PIC × (FIGURE01) OCCURS FIGURE02 TIMES
⋮	⋮

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FIG. 4

ID	Appearance Count
1	0
2	0
3	0
4	0
⋮	⋮

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FIG. 5

```
000010*****
000020* CLIENT NAME : DENZAI PACKAGE *
000030* PROGRAM NAME : CLIENT BUSINESS RANKING *
000040* PROGRAM ID : PSD712 *
000050* CREATOR : (I.C) *
000060* CREATION DATE : 99.11.18 *
000070* AMENDMENT DATE : 00.00.00 *
000080*****
000090 IDENTIFICATION DIVISION.
000100 PROGRAM-ID. PSD712.
000110*
000120 ENVIRONMENT DIVISION.
000130 CONFIGURATION SECTION.
000140 SOURCE-COMPUTER. V7070.
000150 OBJECT-COMPUTER. V7070.
000160 INPUT-OUTPUT SECTION.
000170 FILE-CONTROL.
000180*****
000190* CLIENT MASTER SORTED
000200*****
000210 SELECT SDK30 ASSIGN TO K3-DK00-SDK30
000220 ORGANIZATION SEQUENTIAL
000230 ACCESS SEQUENTIAL
000240 SHARE NO
000250 FILE STATUS STATUS-1 STATUS-2.
000260*****
000270* CONTROL FILE
000280*****
000290 SELECT SDC00 ASSIGN TO C0-DK00-SDC00
000300 ORGANIZATION RELATIVE
000310 ACCESS DYNAMIC
000320 RELATIVE C0-KEY
000330 SHARE I-O
000340 FILE STATUS STATUS-1 STATUS-2.
```

.....

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FIG. 6

ID	Appearance Count
1	1
2	0
3	0
4	0
⋮	⋮

FIG. 7

ID	Appearance Count
1	2
2	2
3	2
4	2
⋮	⋮
17	42
⋮	⋮

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FIG. 8

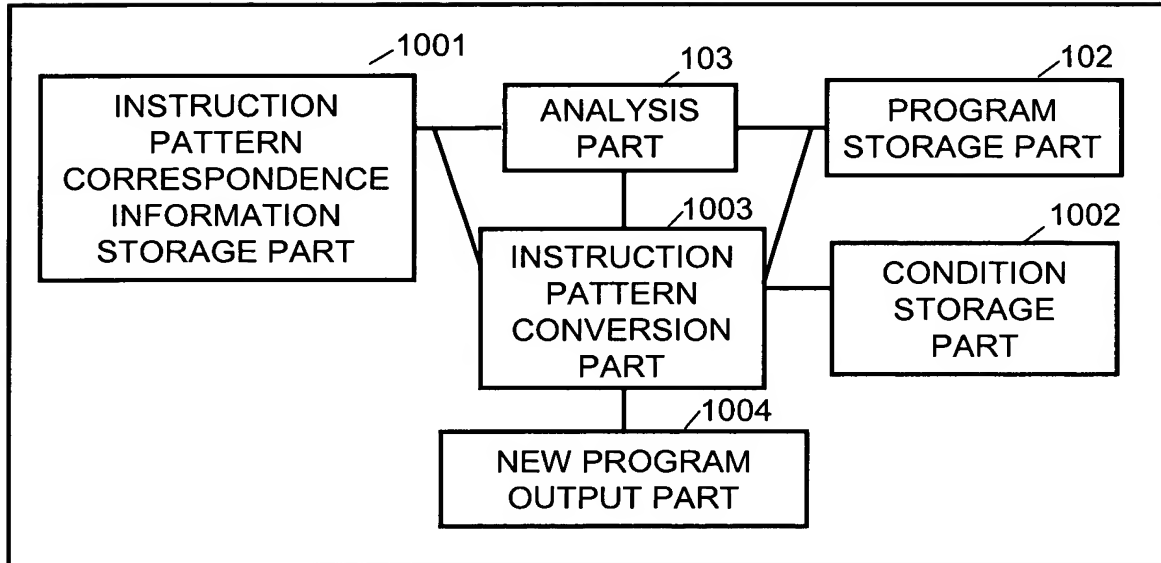
ID	AC	Instruction Pattern Information	
1	2	IDENTIFICATION	DIVISION
2	2	PROGRAM-ID	VARIABLE01
3	2	ENVIRONMENT	DIVISION
4	2	CONFIGURATION	SECTION
5	2	INPUT-OUTPUT	SECTION
6	2	FILE-CONTROL	
7	2	OBJECT-COMPUTER	CONVERSION01
8	2	SELECT	VARIABLE01 ASSIGN TO VARIABLE02
9	1	SELECT	VARIABLE01 ASSIGN TO VARIABLE02 ORGANIZATION INDEXED ACCESS MODE ... DYNAMIC RECORD KEY VARIABLE03 FILE STATUS IS VARIABLE04
10	1	SELECT	VARIABLE01 ASSIGN TO VARIABLE02 ORGANIZATION INDEXED ACCESS MODE ... RANDOM RECORD KEY VARIABLE03 FILE STATUS IS VARIABLE04
11	2	SOURCE-COMPUTER	VARIABLE01
12	2	DATA	DIVISION
13	2	FILE	SECTION
14	2	WORKING-STORAGE	SECTION
15	12	NUMBER	VARIABLE01
16	5	NUMBER	VARIABLE01 OCCURS FIGURE01 DEPENDING ON VARIABLE02
17	42	NUMBER	VARIABLE01 PIC × (FIGURE01)
18	2	NUMBER	VARIABLE01 PIC × (FIGURE01) OCCURS FIGURE02 TIMES
⋮			⋮

FIG. 9

ID	AC	Instruction Pattern Information	
1	2	IDENTIFICATION	DIVISION
2	2	PROGRAM-ID	VARIABLE01
3	2	ENVIRONMENT	DIVISION
4	2	CONFIGURATION	SECTION
5	2	INPUT-OUTPUT	SECTION
6	2	FILE-CONTROL	
7	2	OBJECT-COMPUTER	CONVERSION01
8	2	SELECT	VARIABLE01 ASSIGN TO VARIABLE02
9	1	SELECT	VARIABLE01 ASSIGN TO VARIABLE02 ORGANIZATION INDEXED ACCESS MODE ... DYNAMIC RECORD KEY VARIABLE03 FILE STATUS IS VARIABLE04
10	1	SELECT	VARIABLE01 ASSIGN TO VARIABLE02 ORGANIZATION INDEXED ACCESS MODE ... RANDOM RECORD KEY VARIABLE03 FILE STATUS IS VARIABLE04
11	2	SOURCE-COMPUTER	VARIABLE01
12	2	DATA	DIVISION
13	2	FILE	SECTION
14	2	WORKING-STORAGE	SECTION
15	<u>12</u>	<u>NUMBER</u>	<u>VARIABLE01</u>
16	<u>5</u>	<u>NUMBER</u>	<u>VARIABLE01 OCCURS FIGURE01 DEPENDING ON VARIABLE02</u>
17	<u>42</u>	<u>NUMBER</u>	<u>VARIABLE01 PIC × (FIGURE01)</u>
18	2	NUMBER	VARIABLE01 PIC × (FIGURE01) OCCURS FIGURE02 TIMES
⋮			⋮

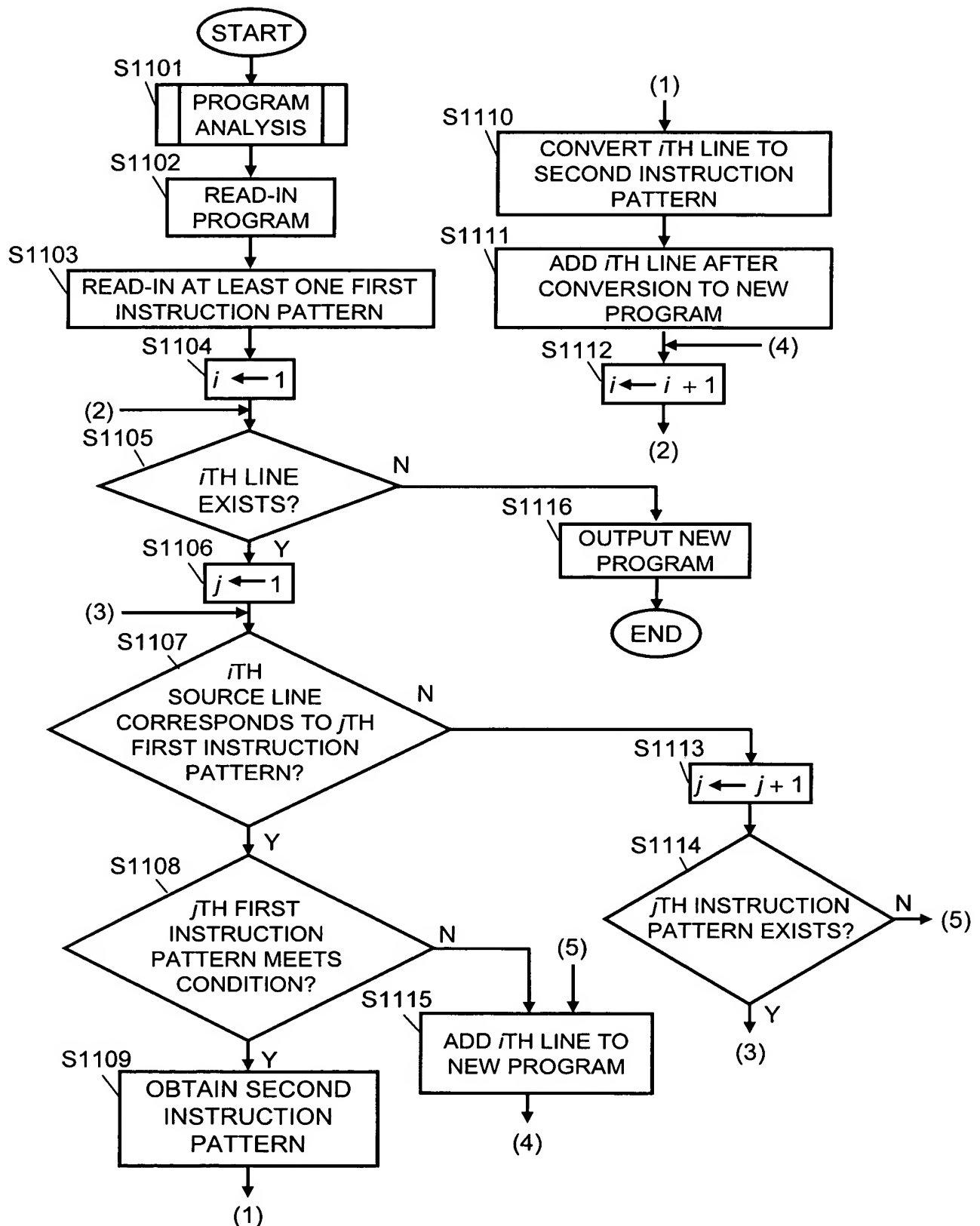
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FIG. 10



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FIG. 11



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FIG. 12

ID	First Instruction Pattern Information	Second Instruction Pattern Information
1	SOURCE-COMPUTER. XXXXXX	#DEL# * SOURCE-COMPUTER. XXXXXX. #CHG# SOURCE-COMPUTER. IBM-AS400.
2	OBJECT-COMPUTER. XXXXXX	#DEL# * OBJECT-COMPUTER. XXXXXX. #CHG# OBJECT-COMPUTER. IBM-AS400.
3	SELECT filexxx ASSIGN xx-DK00- ~	#DEL# *SELECT filexxx ASSIGN xx-DK00- ~ #CHG# SELECT filexxx ASSIGN DATABASE-FCxx
4	SELECT filexxx ASSIGN PR-SP00	#DEL# *SELECT filexxx ASSIGN PR-SP00 #CHG# SELECT filexxx ASSIGN PRINTER-PR
5	SELECT filexxx ASSIGN SORTWORK.	#DEL# *SELECT filexxx ASSIGN SORTWORK. #CHG# SELECT filexxx ASSIGN DATABASE-SORTWORK.
6	SELECT SCREEN ASSIGN GA-DK00 ~.	#DEL# *FORMAT-CONTROL. #DEL# * SELECT SCREEN ASSIGN GA-DK00 #DEL# * ~.
7	FORMAT SECTION.	#DEL# *FORMAT SECTION.
8	MD display name	#DEL# *MD display name.
9	WORKING-STORAGE SECTION	WORKING-STORAGE SECTION. #ADD# COPY CONVWORK.
⋮	⋮	⋮

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FIG. 13

```

#ADD# PROCESS GRAPHIC CVTPICGGRAPHIC QUOTE
#ADD# IDENTIFICATION DIVISION.
000010*****
000020* CLIENT NAME : DENZAI PACKAGE *
000030* PROGRAM NAME : CLIENT BUSINESS RANKING *
000040* PROGRAM ID : PSD712 *
000050* CREATOR : (I.C) *
000060* CREATION DATE : 99.11.18 *
000070* AMENDMENT DATE : 00.00.00 *
000080*****
#DEL# *IDENTIFICATION DIVISION.
000100 PROGRAM-ID. PSD712.
000110*
000120 ENVIRONMENT DIVISION.
000130 CONFIGURATION SECTION.
#DEL# *SOURCE-COMPUTER. V7070.
#CHG# SOURCE-COMPUTER. IBM-AS400.
#DEL# *OBJECT-COMPUTER. V7070.
#CHG# OBJECT-COMPUTER. IBM-AS400.
#ADD# SPECIAL-NAMES.
#ADD# COPY CONVSPCN.
000160 INPUT-OUTPUT SECTION.
000170 FILE-CONTROL.
000180*****
000190* CLIENT MASTER SORTED
000200*****
#DEL# * SELECT SDK30 ASSIGN TO K3-DK00-SDK30
#CHG# SELECT SDK30 ASSIGN TO DATABASE-FCK3
000220 ORGANIZATION SEQUENTIAL
000230 ACCESS SEQUENTIAL
#DEL# * SHARE NO
#DEL# * FILE STATUS STATUS-1 STATUS-2.
#ADD# FILE STATUS STATUS-2.
000260*****
000270* CONTROL FILE
000280*****
#DEL# * SELECT SDC00 ASSIGN TO C0-DK00-SDC00
#CHG# SELECT SDC00 ASSIGN TO DATABASE-FCC0
000300 ORGANIZATION RELATIVE
000310 ACCESS DYNAMIC
000320 RELATIVE C0-KEY
#DEL# * SHARE I-O
#DEL# * FILE STATUS STATUS-1 STATUS-2.
#ADD# FILE STATUS STATUS-2.

```

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FIG. 14

```

000810*****
000820* DATA DIVISION
000830*****
000840 DATA DIVISION.
000850 FILE SECTION.
@DEL@ * COPY C-SDK30.
@ADD@ FD SDK30.
000860 COPY SDK30.
000870/
@DEL@ * COPY C-SDC00.
@ADD@ FD SDC00.
000880 COPY SDC00.
000890/
@DEL@ * COPY C-SDC20.
@ADD@ FD SDC20.
000900 COPY SDC20.
000910/
@DEL@ * COPY C-SDC40.
@ADD@ FD SDC40.
000920 COPY SDC40.
000930/
@DEL@ * COPY C-SDCQ0.
@ADD@ FD SDCQ0.
000940 COPY SDCQ0.
000950/
@DEL@ * COPY C-SJR00.
@ADD@ FD SJR00.
000960 COPY SJR00.
000970*
@DEL@ * COPY C-PRINT.
@ADD@ FD PRINTER IS EXTERNAL.
000980 COPY PRINT.
000990*****
001000* SORT WORK
001010*****
#DEL# *SD SRTWORK1.
#CHG# SD SRTWORK1.
001030 01 SW-REC.
1040 03 SW-000 PIC X(01).
001050 03 SW-001-BUMON PIC 9(04).
001060 03 SW-001-CHIKU PIC 9(02).
001070 03 SW-002-TOKUI PIC S9(07) COMP-3.
001080 03 SW-003.
001090 05 SW-003-IDX PIC 9(04).
001100 05 SW-004-URIAGE PIC S9(13) COMP-3.

```

Reference numerals used in the drawings

101	Instruction pattern information storage part
102	Program storage part
103	Analysis part
104	Analysis results output part
1001	Instruction pattern correspondence information storage part
1002	Condition storage part
1003	Instruction pattern conversion part
1004	New program output part